Specification of Competency Standards
for the Automotive
Unit of Competency

Functional Area - Vehicle Servicing

Title	The safety setup for the service of the pressurized gaseous fuel systems on vehicles
Code	111677L2
Range	This unit of competency is applicable in vehicle service workshops. Practitioners should be able to set up a safe working environment and tools for the service of the pressurised gaseous fuel systems on vehicles according to the instructions in the corresponding vehicle manufacturer's service manual and the relevant requirements on environmental protection, the code of practice on gas safety, occupational safety and health regulations. They should also be able to handle potential hazards on the systems and provide a simple work report upon completion of work.
Level	2
Credit	3 *(For Reference Only)*
Competency	**Performance Requirements** 1. Knowledge (Personal protection and first-aid equipment, service tools and equipment, workplace setup requirements for the services of pressurised gaseous fuel systems on vehicles) • Understand the hazards and safety precautions for the service of pressurised gaseous fuel systems, including liquefied petroleum gas (LPG) and hydrogen (H2), on vehicles. • Identify the functions, serviceability test and application of personal protection and first-aid equipment, service tools and equipment for conducting the service. • Understand the requirements on workplace setup for the relevant service according to the instructions in the corresponding vehicle manufacturer's service manual and guidelines of occupational safety and health and the code of practice on gas safety. • Understanding of the procedures of emergency response, incident reporting and investigation for the pressurised gaseous fuel system on vehicles. 2. Performance (Perform the safety setup for the service of the pressurised gaseous fuel systems on vehicles) • According to the maintenance requirements of manufacturers, periodically inspect the adaptability and serviceability of personal protection and first-aid equipment, service tools and equipment for the service, ventilation system, combustible gas detection and warning systems. • According to the instructions in the corresponding vehicle manufacturer's service manual and the requirements of the code of practice on gas safety, environmental protection, occupational safety and health, set up an isolated servicing area with barricades and warning signage for the service, and identify the suitable location for temporarily keeping away the cell phones, key fobs and cards from the vehicles concerned. • Determine the effectiveness of the safety setup and provide writ a simple work report focusing on the deficiencies and corresponding actions taken.
Assessment Criteria	The integrated outcome requirements of this unit of competency are that the practitioner being assessed shall prove that he/she is: • Capable of inspecting the adaptability and serviceability of personal protection and first aid equipment, service tools and equipment for the service of pressurised gaseous fuel systems on vehicles according

	to the instructions of manufacturers and the relevant requirements on occupational safety and health regulations and the code of practice on gas safety; • Capable of setting up and maintaining a safe working environment for the service of pressurised gaseous fuel systems on vehicles and performing contingency procedures, incident reporting and investigation according to the instructions in the vehicle manufacturer's service manual and the relevant requirements on environmental protection, the code of practice on gas safety, occupational safety and health regulations; and • Capable of reviewing the effectiveness of safety setup for the service of pressurised gaseous fuel systems on vehicles and providing a simple work report.
Remark	The credit value of this unit of competency is set on the presumption that the practitioner concerned has already possessed good knowledge in the servicing of hybrid electric and electrified vehicles. The major ordinance involved in this unit of competency is as follows: • Relevant ordinances to the Road Traffic (Construction and Maintenance of vehicles) Regulations • Code of Practice on Gas Safety • Occupational Safety and Health Ordinance